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PAJ 00-07-76 02160047 JP CATALYST FOR OXIDATION DECOMPOSITION OF AMMONIA

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PATENT APPLICATION NUMBER- 63315058

DATE FILED- 1988-12-15

PUBLICATION NUMBER- 02160047 JP

DOCUMENT TYPE- A

PUBLICATION DATE- 1990-06-20

INTERNATIONAL PATENT CLASS- B01J02372; B01J02384

APPLICANT(S)- NKK CORP

PUBLICATION COUNTRY- Japan NDN- 190-0042-0646-1

PURPOSE: To obtain a catalyst which converts high concn. ammonia into nitrogen with high efficiency by supporting copper oxide and/or vanadium oxide on a carrier obtd. by depositing titania in the pores in alumina. **CONSTITUTION:** Titania is deposited in the pores in uniformly granulated alumina, e.g. by impregnating an aq. titanium salt soln. into the alumina to obtain a carrier. Copper oxide such as CuO or Cu₂O and/or vanadium oxide such as V₂O₅ or V₂O₄ is supported on the carrier. The resulting catalyst for oxidation decomposition of ammonia converts high concn. ammonia into nitrogen with high efficiency and controls the generation of NO_x. **COPYRIGHT:** (C)1990,JPO&Japio

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